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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER	
CHOWDHURY, SUMAIYA A	
ART UNIT	PAPER NUMBER
2611	

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/896,727	LIAO, HSINCHAO	
	Examiner	Art Unit	
	Sumaiya A. Chowdhury	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-16* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-16* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5, 10-12, 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue (6,580,462) in view of Shimakawa (6,452,644)

Considering claim 1, Inoue discloses a receiver unit (Figure 1) for receiving from broadcast (col. 4, lines 48-52) and personalizing digital data (col. 10, lines 30-40), comprising

A broadcast receiver (10) for demodulating digital data from broadcast signal (10 – Figure 1, col. 5, lines 9-14); and

An embedded computer (30-45 – Figure 1), including an interface (45 – Figure 1) for accessing a removable storage device (External Memory (100) – Figure 1, col. 8, lines 64-67), for processing the demodulated digital data according to the software stored on said removable device attached to said embedded computer through said interface (col. 10, lines 30-40). However, Inoue fails to discloses a mobile receiver unit.

In an analogous art, Shimakawa discloses the reception of desired type of data by a mobile data receiver. The receiver is controlled to receive a desired type of data, for example, weather forecasts, news, stock prices, etc. – col. 8, lines 11-18.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Inoue's system to include a mobile data receiver, as taught by Shimakawa for the advantage of providing mobility to the user.

Considering claim 2, Inoue discloses an apparatus wherein said embedded computer loads from said removable storage device software containing parameters (The programs (parameters) and data stored in the external memory element (100, removable storage device) are written in the flash memory by the operation of the controlling portion (30, embedded computer) -col. 9, lines 53-55, col. 10, lines 20-40).

Considering claim 3, Inoue discloses an apparatus wherein said embedded computer loads from said removable storage device software containing programs (col. 9, lines 53-55, col. 10, lines 18-20).

Considering claim 5, Inoue discloses an apparatus comprising a video display for displaying digital data (col. 8, lines 7-12).

Considering claim 10, Inoue discloses a personalization system, comprising

An interactive computer (Figure 1), including an interface (43 & remote controller, col. 15, lines 57-64) for accessing a removable storage device (External Memory 100 – Figure 1), for providing to the user an interactive means for choosing interactively a subset of a collection of personalization software (col. 10, lines 30-40, col. 16, lines 62-67, col. 17, lines 1-3), and for writing said collection of personalization software to said removable storage device (col. 15, lines 18-21, col. 10, lines 30-40); and

A receiver unit (Receiver 3 – Figure 1) for receiving from broadcast (col. 4, lines 48-52) and personalizing digital data (col. 10, lines 30-40), comprising

A broadcast receiver (10) for demodulating digital data from broadcast signal (10 – Figure 1, col. 5, lines 9-14); and

An embedded computer (30-45 – Fig. 1), including an interface (45 – Figure 1) for accessing said removable storage device (External Memory 100 – Figure 1, col. 8, lines 64-67), for processing the demodulated digital data (col. 5, lines 9-14) according to said collection of personalization software stored on said removable device attached to said embedded computer through said interface (col. 10, lines 30-40). However, Inoue fails to disclose a mobile receiver unit.

In an analogous art, Shimakawa discloses the reception of desired type of data by a mobile data receiver. The receiver is controlled to receive a desired type of data, for example, weather forecasts, news, stock prices, etc. – col. 8, lines 11-18.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Inoue's system to include a mobile data receiver, as taught by Shimakawa for the advantage of providing mobility to the user.

Considering claim 11, Inoue discloses a system wherein said interactive computer is a television set top box (col. 4, lines 45-50, col. 19, lines 41-44).

Considering claim 12, Inoue discloses a system wherein said interactive computer writes to said removable device software containing parameters (The receiver (3) which is a component of the complete interactive system writes data in the external memory element 100 - col. 15, lines 18-21. The external memory element (100) stores a program for enabling extraction and use of the specific type of information (parameter) - col. 10, lines 30-40).

Considering claim 14, Inoue discloses the system wherein said interactive computer writes to said removable storage device software containing programs (The receiver (3) which is a component of the complete interactive system writes data in the external memory element (100) - col. 15, lines 18-21. The external memory element (100) stores a program for enabling extraction and use of the specific type of information - col. 10, lines 30-40, col. 9, lines 1-50).

Considering claim 15, Inoue discloses the system wherein said interactive computer includes a downloading means for downloading programs from Internet to said removable storage device (Data selected by the user includes internet data – col. 7, lines 3-10. The transport stream is supplied to the digital interface section (20) which

enables the transport stream and other data to be supplied to the external digital devices – col. 6, lines 59-61, col. 9, lines 1-50).

Considering claim 16, Inoue and Shimakawa disclose the system wherein said interactive computer includes a programming means for identifying and building, by the user, programs to be executed by said embedded computer of said mobile receiver unit (In particular, Inoue discloses that the external memory element stores programs and permits reading of such program – col. 9, lines 5-7. The receiver (3) upgrades its function by using data read from the external memory element 100 – col. 9, lines 11-17. A new function can be implemented on the receiver (3) by the additional registration of programs loaded on the receiver (3) – col. 9, lines 60-62. The user copies a program stored in the external memory element (100) into SDRAM (33). The controlling section (30) (embedded computer) controls the demultiplexing section by executing the program copied in the SDRAM (33) – col. 10, lines 40-46.).

2. Claims 4, 6, 7, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue in view of Shimakawa as applied to claim 1 and 10 above, and further in view of Sezan (6,236,395).

Considering claim 4, Inoue and Shimakawa fail to disclose an apparatus wherein said embedded computer includes a signaling means for alerting the user that demodulated digital data is available.

In an analogous art, Sezan discloses an apparatus wherein said embedded computer includes a signaling means for alerting the user that demodulated digital data is available (An intelligent agent alerts the users of programs that would be of interest to the user based on saved preferences - col. 11, lines 55-61. The intelligent agent is included in the SFB module – col. 9, lines 13-15).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Inoue's system to include an apparatus wherein said embedded computer includes a signaling means for alerting the user that demodulated digital data is available, as taught by Sezan for the advantage of providing the user the ease of not having to search oneself to see if demodulated data is available or not.

Considering claim 6, Inoue and Shimakawa fail to disclose an apparatus wherein said video display comprises a pacing means for displaying content with a plurality of pause lengths.

In an analogous art, Sezan discloses an apparatus wherein said video display comprises a pacing means (<FrameFrequency descriptor>) for displaying content with a plurality of pause lengths (col. 22, lines 24-27).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Inoue's system to include an apparatus wherein said video display comprises a pacing means for displaying content with a plurality of pause lengths, as taught by Sezan for the advantage of providing the user the option to view a program at a desirable pace.

Considering claim 7, Inoue and Shimakawa fail to disclose an apparatus wherein said pacing means includes selection of pause lengths through software stored on said removable storage device.

In an analogous art, Sezan discloses an apparatus wherein said pacing means (<Frame Frequency> descriptor)includes selection of pause lengths through software stored on said removable storage device. (The user selects one's preferences through the user description scheme – col. 11, lines 43-47. The user's preferences are stored on the removable storage device- col. 10, lines 40-47. The descriptor <FrameFrequency> specifies at what interval the frames should be displayed – col. 22, lines 24-27).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to include an apparatus wherein said pacing means includes selection of pause lengths through software stored on said removable storage device, as taught by Sezan for the advantage of providing the user selection means to view a program at a desirable pace.

Considering claim 13, Inoue and Shimakawa fail to disclose the system wherein said interactive computer includes a synchronizing means for synchronizing parameters stored on said removable storage device with the parameters used by a service selected from the group consisting of Internet personalization services and interactive television services.

In an analogous art, Sezan discloses a system (figure 2) wherein the computer includes a synchronizing means (SFB) for synchronizing parameters stored on said removable storage device with the parameters used by an interactive television service (The user description scheme comprises of user's preferences and is stored on the removable storage device. The program description scheme comprises of video, still image, and/or audio information namely, program views and program profiles – col. 4, lines 40-44. The software agent performs a search and filtering for the user using the user description scheme and the program description scheme information to output desirable content – col. 5, lines 1-6).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Inoue's system to include a synchronizing means for synchronizing parameters stored on said removable storage device with the parameters used by an interactive television service, as taught by Sezan for the advantage of providing an effective method of filtering out broadcast data based on user's preferences.

3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue and Shimakawa as applied to claim 1 above, and further in view of Beach (6,901,270).

Considering claim 8, Inoue and Shimkawa fail disclose an apparatus comprising of an audio output system including a voice synthesizer for converting digital data to analog audio signals.

In an analogous art, Beach discloses an application of a mobile device which has a voice synthesizer which can read out messages received (col. 6, lines 63-67, col. 8, lines 11-17).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Inoue and Shimakawa's invention to include an audio output system including a voice synthesizer for converting digital data to analog audio signals as taught by Beach, for the advantage of providing the user with the convenient function of having text data converted to an audio output.

4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue and Shimakawa as applied to claim 1 above, and further in view of Hendricks (6,557,173).

Considering claim 9, Inoue and Shimkawa fail to discloses an apparatus comprising an integrating means for connecting to a device selected from a group consisting of an automobile stereo, a personal stereo and a radio tuner.

In an analogous art, Hendricks discloses an apparatus (220 – figure 8b) comprising an integrating means (662 – figure 8b) for connecting to a radio tuner – col. 19, lines 58-65 & lines 49-51.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Inoue's system to include an apparatus wherein comprising an integrating means for connecting to a radio tuner as taught by Hendricks for the advantage of providing the user with a physical interface (662) to attach various hardware upgrades to a set top terminal (220).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumaiya A. Chowdhury whose telephone number is (571) 272-8567. The examiner can normally be reached on Mon-Fri, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on (571) 272-7292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SAC

CHRIS GRANT
PRIMARY EXAMINER